

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
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PRODUCT EVALUATION

WIN-1753

Effective Date: June 1, 2013

Reevaluation Date: **September 2016**

The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**.

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Series ES5000CW Vinyl Casement Windows, Impact Resistant, manufactured by

Four Seasons Solar Products LLC
5005 Veterans Memorial Highway
Holbrook, New York 11741
Telephone: (631) 563-4000

will be acceptable in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

The Series ES5000CW casement windows are vinyl casement windows. The vinyl casement windows evaluated in this report are individual, impact resistant, windows. This product evaluation report is for vinyl casement windows based on the following tested constructions:

General Description:

| System | Description | Label Rating | Design Pressure Rating |
|--------|--|-----------------|------------------------|
| 1 | Series ES5000CW Vinyl Casement Window; (X) | CW-PG60 36x72-C | +60 / -60 psf |

Product Dimensions:

| System | Overall Size |
|--------|--------------|
| 1 | 36" x 72" |

Product Identification:

| System | Certification Agency | NAMI |
|--------|----------------------------------|---|
| 1 | Manufacturer's Name or Code Name | Four Seasons Solar Products, LLC |
| | Product Name | Series ES5000CW Vinyl Casement Window |
| | Test Standards | AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA 506-08 ASTM E1886-05/E1996-05b TAS 201/202/203-94 |
| | | |

Impact Resistance:

| Impact Resistant | Requirement |
|------------------|--|
| Yes | These products satisfy the Texas Department of Insurance's criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded. |

Installation:

| System | | |
|--------|---------------------------|--|
| 1 | Type of Installation | Replacement Construction – Frame |
| | Wall Framing | Southern Yellow pine |
| | Fasteners | Minimum No. 10 x 1 ½ long screws |
| | Fastener Location/Spacing | Located at 14 7/16" from the ends of each jamb and spaced 14 3/8" o.c. thereafter. |
| | Fastener Penetration | Minimum of 1 ½ inches into the wall framing members |

Note: The manufacturer's installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.